

# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/533,416  
Source: Pf  
Date Processed by STIC: 9/8/06

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PCT

## RAW SEQUENCE LISTING

DATE: 09/08/2006

PATENT APPLICATION: US/10/533,416

TIME: 13:50:07

Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

3 <110> APPLICANT: GENENTECH, INC.  
 4 FONG, SHERMAN  
 5 DENNIS, KATHRYN  
 6 CLARK, HILARY  
 7 CHIU, HENRY  
 8 SCHOENFELD, JILL  
 9 WILLIAMS, P. MICKEY  
 10 WOOD, WILLIAM I.  
 11 WU, THOMAS D.

13 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT OF NATURAL  
 14 KILLER CELL RELATED DISEASES

16 <130> FILE REFERENCE: P1995R1

C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/533,416

C--> 19 <141> CURRENT FILING DATE: 2005-04-28

21 <150> PRIOR APPLICATION NUMBER: US 60/425,235

22 <151> PRIOR FILING DATE: 2002-11-08

24 <160> NUMBER OF SEQ ID NOS: 1477

26 <210> SEQ ID NO: 1

27 <211> LENGTH: 850

28 <212> TYPE: DNA

29 <213> ORGANISM: Homo sapien

31 <400> SEQUENCE: 1

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 34 acctggaagc gggcgagtct cgtgctgtgt cggacctgca gcccttgcc 100  
 36 ttccgccacc atggagtacc tcatcggtat ccaaggcccc gactatgttc 150  
 38 ttgtcgcttc cgaccgggtg gccgccagca atattgtcca gatgaaggac 200  
 40 gatcatgaca agatgtttta gatgagtga aagatattac tcctgtgtgt 250  
 42 tggagaggct ggagacactg tacagtttgc agaataatt cagaaaaacg 300  
 44 tgcaacttta taagatgcga aatggatatg aattgtctcc cacggcagca 350  
 46 gctaacttca cagccgaaa cctggctgac tgtcttcgga gtcggacccc 400  
 48 atatcatgtg aacctcctcc tggctggcta tgatgagcat gaaggccag 450  
 50 cgctgtatta catggactac ctggcagcct tggccaaggc cccttttgca 500  
 52 gccacggct atggtgcctt cctgactctc agtatcctcg accgatacta 550  
 54 cacaccgact atctcacgtg agagggcagt ggaactcctt aggaaatgtc 600  
 56 tggaggagct ccagaaacgc ttcacctga atctgccaac cttcagtgtt 650  
 58 cgaatcattg acaaaaatgg catccatgac ctggataaca tttccttccc 700  
 60 caaacagggc tcctaacatc atgtcctccc tcccacttgc cagggaactt 750  
 62 ttttttgatg ggctccttta ttttttcta ctcttttcag gcgcactctt 800  
 64 gataaatggt taattcagaa taaagggtgac tatggatata attgaaaaaa 850

66 <210> SEQ ID NO: 2

67 <211> LENGTH: 201

68 <212> TYPE: PRT

69 <213> ORGANISM: Homo sapien

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Input Set : E:\P1995R1 Sequence Listing.txt

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71 &lt;400&gt; SEQUENCE: 2

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72 Met Glu Tyr Leu Ile Gly Ile Gln Gly Pro Asp Tyr Val Leu Val
73   1           5           10           15
75 Ala Ser Asp Arg Val Ala Ala Ser Asn Ile Val Gln Met Lys Asp
76           20           25           30
78 Asp His Asp Lys Met Phe Lys Met Ser Glu Lys Ile Leu Leu Leu
79           35           40           45
81 Cys Val Gly Glu Ala Gly Asp Thr Val Gln Phe Ala Glu Tyr Ile
82           50           55           60
84 Gln Lys Asn Val Gln Leu Tyr Lys Met Arg Asn Gly Tyr Glu Leu
85           65           70           75
87 Ser Pro Thr Ala Ala Ala Asn Phe Thr Arg Arg Asn Leu Ala Asp
88           80           85           90
90 Cys Leu Arg Ser Arg Thr Pro Tyr His Val Asn Leu Leu Leu Ala
91           95          100          105
93 Gly Tyr Asp Glu His Glu Gly Pro Ala Leu Tyr Tyr Met Asp Tyr
94          110          115          120
96 Leu Ala Ala Leu Ala Lys Ala Pro Phe Ala Ala His Gly Tyr Gly
97          125          130          135
99 Ala Phe Leu Thr Leu Ser Ile Leu Asp Arg Tyr Tyr Thr Pro Thr
100         140         145         150
102 Ile Ser Arg Glu Arg Ala Val Glu Leu Leu Arg Lys Cys Leu Glu
103         155         160         165
105 Glu Leu Gln Lys Arg Phe Ile Leu Asn Leu Pro Thr Phe Ser Val
106         170         175         180
108 Arg Ile Ile Asp Lys Asn Gly Ile His Asp Leu Asp Asn Ile Ser
109         185         190         195
111 Phe Pro Lys Gln Gly Ser
112         200

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114 &lt;210&gt; SEQ ID NO: 3

115 &lt;211&gt; LENGTH: 2567

116 &lt;212&gt; TYPE: DNA

117 &lt;213&gt; ORGANISM: Homo sapien

119 &lt;400&gt; SEQUENCE: 3

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120 ctccggcgca gtgttgggac tgtctgggta tcggaagca agcctacgtt 50
122 gctcactatt acgtataatc cttttctttt caagatgcct gaggaagtgc 100
124 accatggaga ggaggagggtg gagacttttg cctttcaggc agaaattgcc 150
126 caactcatgt ccctcatcat caataccttc tattccaaca aggagatttt 200
128 ccttcgggag ttgatctcta atgcttctga tgccttggac aagattcgct 250
130 atgagagcct gacagaccct tcgaagttgg acagtggtaa agagctgaaa 300
132 attgacatca tccccaaccc tcaggaacgt accctgactt tggtagacac 350
134 aggcatggc atgaccaaag ctgatctcat aaataatttg ggaaccattg 400
136 ccaagtctgg tactaaagca ttcatggagg ctcttcaggc tgggtgcagac 450
138 atctccatga ttgggcagtt tgggtgttggc ttttattctg cctacttggt 500
140 ggcagagaaa gtggttgtga tcacaaagca caacgatgat gaacagtatg 550
142 cttgggagtc ttctgtctga ggttccttca ctgtgcgtgc tgaccatggt 600
144 gagcccattg gcaggggtac caaagtgatc ctccatctta aagaagatca 650
146 gacagagtac ctagaagaga ggcgggtcaa agaagtagtg aagaagcatt 700
148 ctcagttcat aggctatccc atcacccttt atttgagaa ggaacgagag 750

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Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

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150 aaggaaatta gtgatgatga ggcagaggaa gagaaagggtg agaaagaaga 800
152 ggaagataaa gatgatgaag aaaaacccaa gatcgaagat gtgggttcag 850
154 atgaggagga tgacagcggg aaggataaga agaagaaaac taagaagatc 900
156 aaagagaaat acattgatca ggaagaacta aacaagacca agcctatttg 950
158 gaccagaaac cctgatgaca tcacccaaga ggagtatgga gaattctaca 1000
160 agagcctcac taatgactgg gaagaccact tggcagtcaa gcacttttct 1050
162 gtagaagggtc agttggaatt cagggcattg ctattttattc ctcgtcgggc 1100
164 tccctttgac ctttttgaga acaagaagaa aaagaacaac atcaaactct 1150
166 atgtccgccg tgtgttcac atggacagct gtgatgagtt gataccagag 1200
168 tatctcaatt ttatccgtgg tgtggttgac tctgaggatc tgcccctgaa 1250
170 catctcccgga gaaatgctcc agcagagcaa aatcttgaaa gtcattcgca 1300
172 aaaacattgt taagaagtgc cttgagctct tctctgagct ggcagaagac 1350
174 aaggagaatt acaagaaatt ctatgaggca ttctctaaaa atctcaagct 1400
176 tggaaatccac gaagactcca ctaaccgccg ccgctgtct gagctgctgc 1450
178 gctatcatat ccccagctct ggagatgaga tgacatctct gtcagagtat 1500
180 gtttctcgca tgaaggagac acagaagtcc atctattaca tcaactggtga 1550
182 gagcaaagag cagggtggcca actcagcttt tgtggagcga gtgcggaaac 1600
184 ggggcttcga ggtggtatat atgaccgagc ccattgacga gtactgtgtg 1650
186 cagcagctca aggaatttga tgggaagagc ctggtctcag ttaccaagga 1700
188 gggctctggag ctgcctgagg atgaggagga gaagaagaag atggaagaga 1750
190 gcaaggcaaa gtttgagaac ctctgcaagc tcatgaaaga aatcttagat 1800
192 aagaagggtg agaagggtgac aatctccaat agacttgtgt cttcaccttg 1850
194 ctgcattgtg accagcacct acggctggac agccaatatg gagcggatca 1900
196 tgaaagccca ggcacttcgg gacaactcca ccatgggcta tatgatggcc 1950
198 aaaaagcacc tggagatcaa ccctgaccac cccattgtgg agacgctgcg 2000
200 gcagaaggct gaggccgaca agaataataa ggcagttaag gacctggtgg 2050
202 tgctgctgtt tgaaaccgcc ctgctatctt ctggcttttc ccttgaggat 2100
204 cccagagacc actccaaccg catctatcgc atgatcaagc taggtctagg 2150
206 tattgatgaa gatgaagtgg cagcagagga acccaatgct gcagttcctg 2200
208 atgagatccc cctctcagg ggcatgagg atgcgtctcg catggaagaa 2250
210 gtcgattagg ttaggagttc atagttggaa aacttgtgcc cttgtatagt 2300
212 gtcccatgg gctcccactg cagcctcgag tgccctgtc ccacctggct 2350
214 cccctgctg gtgtctagt tttttttccc tctcctgtcc ttgtgttgaa 2400
216 ggcagtaaac taagggtgtc aagccccatt ccctctctac tcttgacagc 2450
218 aggattggat gttgtgtatt gtggtttatt ttattttctt cattttgttc 2500
220 tgaaattaaa gtatgcaaaa taaagaatat gccgttttaa aaaaaaaaaa 2550
222 aaaaaaaaaa aaaaaaa 2567

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&lt;210&gt; SEQ ID NO: 4

&lt;211&gt; LENGTH: 724

&lt;212&gt; TYPE: PRT

&lt;213&gt; ORGANISM: Homo sapien

&lt;400&gt; SEQUENCE: 4

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230 Met Pro Glu Glu Val His His Gly Glu Glu Glu Val Glu Thr Phe
231 1 5 10 15
233 Ala Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu Ile Ile Asn
234 20 25 30
236 Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser
237 35 40 45
239 Asn Ala Ser Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr

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Input Set : E:\P1995R1 Sequence Listing.txt

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240		50		55		60
242	Asp Pro Ser Lys Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile					
243		65		70		75
245	Ile Pro Asn Pro Gln Glu Arg Thr Leu Thr Leu Val Asp Thr Gly					
246		80		85		90
248	Ile Gly Met Thr Lys Ala Asp Leu Ile Asn Asn Leu Gly Thr Ile					
249		95		100		105
251	Ala Lys Ser Gly Thr Lys Ala Phe Met Glu Ala Leu Gln Ala Gly					
252		110		115		120
254	Ala Asp Ile Ser Met Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser					
255		125		130		135
257	Ala Tyr Leu Val Ala Glu Lys Val Val Val Ile Thr Lys His Asn					
258		140		145		150
260	Asp Asp Glu Gln Tyr Ala Trp Glu Ser Ser Ala Gly Gly Ser Phe					
261		155		160		165
263	Thr Val Arg Ala Asp His Gly Glu Pro Ile Gly Arg Gly Thr Lys					
264		170		175		180
266	Val Ile Leu His Leu Lys Glu Asp Gln Thr Glu Tyr Leu Glu Glu					
267		185		190		195
269	Arg Arg Val Lys Glu Val Val Lys Lys His Ser Gln Phe Ile Gly					
270		200		205		210
272	Tyr Pro Ile Thr Leu Tyr Leu Glu Lys Glu Arg Glu Lys Glu Ile					
273		215		220		225
275	Ser Asp Asp Glu Ala Glu Glu Glu Lys Gly Glu Lys Glu Glu Glu					
276		230		235		240
278	Asp Lys Asp Asp Glu Glu Lys Pro Lys Ile Glu Asp Val Gly Ser					
279		245		250		255
281	Asp Glu Glu Asp Asp Ser Gly Lys Asp Lys Lys Lys Lys Thr Lys					
282		260		265		270
284	Lys Ile Lys Glu Lys Tyr Ile Asp Gln Glu Glu Leu Asn Lys Thr					
285		275		280		285
287	Lys Pro Ile Trp Thr Arg Asn Pro Asp Asp Ile Thr Gln Glu Glu					
288		290		295		300
290	Tyr Gly Glu Phe Tyr Lys Ser Leu Thr Asn Asp Trp Glu Asp His					
291		305		310		315
293	Leu Ala Val Lys His Phe Ser Val Glu Gly Gln Leu Glu Phe Arg					
294		320		325		330
296	Ala Leu Leu Phe Ile Pro Arg Arg Ala Pro Phe Asp Leu Phe Glu					
297		335		340		345
299	Asn Lys Lys Lys Lys Asn Asn Ile Lys Leu Tyr Val Arg Arg Val					
300		350		355		360
302	Phe Ile Met Asp Ser Cys Asp Glu Leu Ile Pro Glu Tyr Leu Asn					
303		365		370		375
305	Phe Ile Arg Gly Val Val Asp Ser Glu Asp Leu Pro Leu Asn Ile					
306		380		385		390
308	Ser Arg Glu Met Leu Gln Gln Ser Lys Ile Leu Lys Val Ile Arg					
309		395		400		405
311	Lys Asn Ile Val Lys Lys Cys Leu Glu Leu Phe Ser Glu Leu Ala					
312		410		415		420

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Input Set : E:\P1995R1 Sequence Listing.txt

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314  Glu Asp Lys Glu Asn Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys
315                                425                                430                                435
317  Asn Leu Lys Leu Gly Ile His Glu Asp Ser Thr Asn Arg Arg Arg
318                                440                                445                                450
320  Leu Ser Glu Leu Leu Arg Tyr His Thr Ser Gln Ser Gly Asp Glu
321                                455                                460                                465
323  Met Thr Ser Leu Ser Glu Tyr Val Ser Arg Met Lys Glu Thr Gln
324                                470                                475                                480
326  Lys Ser Ile Tyr Tyr Ile Thr Gly Glu Ser Lys Glu Gln Val Ala
327                                485                                490                                495
329  Asn Ser Ala Phe Val Glu Arg Val Arg Lys Arg Gly Phe Glu Val
330                                500                                505                                510
332  Val Tyr Met Thr Glu Pro Ile Asp Glu Tyr Cys Val Gln Gln Leu
333                                515                                520                                525
335  Lys Glu Phe Asp Gly Lys Ser Leu Val Ser Val Thr Lys Glu Gly
336                                530                                535                                540
338  Leu Glu Leu Pro Glu Asp Glu Glu Glu Lys Lys Lys Met Glu Glu
339                                545                                550                                555
341  Ser Lys Ala Lys Phe Glu Asn Leu Cys Lys Leu Met Lys Glu Ile
342                                560                                565                                570
344  Leu Asp Lys Lys Val Glu Lys Val Thr Ile Ser Asn Arg Leu Val
345                                575                                580                                585
347  Ser Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr Ala
348                                590                                595                                600
350  Asn Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser
351                                605                                610                                615
353  Thr Met Gly Tyr Met Met Ala Lys Lys His Leu Glu Ile Asn Pro
354                                620                                625                                630
356  Asp His Pro Ile Val Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp
357                                635                                640                                645
359  Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val Leu Leu Phe Glu
360                                650                                655                                660
362  Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr
363                                665                                670                                675
365  His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile
366                                680                                685                                690
368  Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val Pro
369                                695                                700                                705
371  Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met
372                                710                                715                                720
374  Glu Glu Val Asp
377 <210> SEQ ID NO: 5
378 <211> LENGTH: 2657
379 <212> TYPE: DNA
380 <213> ORGANISM: Homo sapien
382 <400> SEQUENCE: 5
383 gaattccggg ccatgagctg ccccggtgcc gctgtgtgcg cgctgtgtgct 50
385 agtcctgggg ctctgccggg cgcgtcccg gaacgcactg ctgtcctctg 100
387 cggatgacgg aggccttgag agtggcgcg acaacaacag cgccatcgcc 150

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/533,416

DATE: 09/08/2006  
TIME: 13:50:08

Input Set : E:\P1995R1 Sequence Listing.txt  
Output Set: N:\CRF4\09082006\J533416.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:70; N Pos. 1205  
Seq#:101; N Pos. 23,27,80,120  
Seq#:112; N Pos. 95,99,108  
Seq#:116; N Pos. 515,521,522,523,524,525,526,527,528,529,530,531,532,533  
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Seq#:117; Xaa Pos. 61,63,64,65,66,67,68,69,70,71,72,73,74  
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TIME: 13:50:08

Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

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Seq#:609; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106  
Seq#:617; N Pos. 729,730,731  
Seq#:642; N Pos. 2530  
Seq#:682; N Pos. 3036  
Seq#:712; N Pos. 2770  
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Seq#:807; N Pos. 662,663,664,665,666,667,668,669,670,671,672,673,674,675



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Seq#:835; Xaa Pos. 10  
Seq#:842; N Pos. 34  
Seq#:868; N Pos. 421  
Seq#:874; N Pos. 2120,2121,2122,2123,2124,2125,2126,2127,2128,2129,2130  
Seq#:874; N Pos. 2131,2132,2133,2134,2135,2136,2137,2138,2139  
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Seq#:955; N Pos. 1536  
Seq#:979; N Pos. 47,49  
Seq#:1011; N Pos. 886  
Seq#:1061; N Pos. 3939  
Seq#:1071; N Pos. 2530  
Seq#:1073; N Pos. 360  
Seq#:1074; Xaa Pos. 57  
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Seq#:1393; N Pos. 4966,4967,4968,4969,4970,4971  
Seq#:1394; Xaa Pos. 30,31,32,33,34,35,36,37  
Seq#:1420; N Pos. 146,147,148,149,150,151,152,153,154,155,156,157,158,159  
Seq#:1420; N Pos. 160,161,162,163,164,165,166,167,168  
Seq#:1431; N Pos. 2395,2396,2397,2398,2399,2400,2401,2402,2403,2404,2405  
Seq#:1431; N Pos. 2406,2407,2408,2409,2410,2411,2412,2413,2414,2415,2416  
Seq#:1431; N Pos. 2417,2418,2419,2420,2421,2422,2423,2424,2425,2426,2427  
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Seq#:1431; N Pos. 2439,2440,2441,2442,2443,2444,2445,2446,2447,2448,2449  
Seq#:1431; N Pos. 2450,2451,2452,2453,2454,2455,2456,2457,2458,2459,2460  
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Seq#:1431; N Pos. 2483,2484,2485,2486,2487,2488,2489,2490,2491,2492,2493  
Seq#:1431; N Pos. 2494,2495,2496,2497,2498,2499,2500,2501,2502,2503,2504  
Seq#:1431; N Pos. 2505,2506,2507,2508,2509,2510,2511,2512,2513,2514,2515  
Seq#:1431; N Pos. 2516,2517,2518,2519,2520,2521,2522,2523,2524,2525,2526  
Seq#:1431; N Pos. 2527,2528,2529,2530  
Seq#:1435; N Pos. 723,724,725,726,727,728,729,730,731,732,733,734,735,736  
Seq#:1435; N Pos. 737,738,739,740,741,742,743,744,745,746,747,748,749,750  
Seq#:1435; N Pos. 751,752,753,754,755,756,757,758,759,760,761,762,763,764  
Seq#:1435; N Pos. 765,766,767,768,769,770,771,772,773,774,775,776,777,778  
Seq#:1435; N Pos. 779,780,781,782,783,784,785,786,787,788,789,790,791,792  
Seq#:1435; N Pos. 793,794,795,796,797,798,799,800,801,802,803,804,805,806  
Seq#:1435; N Pos. 807,808,809,810,811,812,813,814,815,816,817,818,819,820  
Seq#:1435; N Pos. 821,822,823,824,825,826,827,828,829,830,831,832,833,834  
Seq#:1435; N Pos. 835,836,837,838,839,840,841,842,843,844,845,846,847,848  
Seq#:1435; N Pos. 849,850,851,852,853,854,855,856,857,858,859,860,861,862  
Seq#:1443; N Pos. 953,954,955,956,957,958,959,960,961,962,963,964,965,966  
Seq#:1443; N Pos. 967,968,969,970,971,972,973,974,975,976,977,978,979,980  
Seq#:1443; N Pos. 981,982,983,984,985,986,987,988,989,990,991,992,993,994

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/533,416DATE: 09/08/2006  
TIME: 13:50:08

Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

Seq#:1445; N Pos. 473,474,475,476,477,478,479,480,481,482,483,484,485,486  
Seq#:1445; N Pos. 487,488,489,490,491,492,493,494,495,496,497,498,499,500  
Seq#:1445; N Pos. 501,502,503,504,505,506,507,768,769,770,771,772,773,774  
Seq#:1445; N Pos. 775,776,777,778,779,780,781,782,783,784,785,786,787,788  
Seq#:1445; N Pos. 789,790,791,792,793,794,795,796,797,798,799,800,801,802  
Seq#:1445; N Pos. 803,804,805,806,807,808,809,810,811,812,813,814,815,816  
Seq#:1445; N Pos. 817,818,819,820,821,822,823,824,825,826,827,828,829,830  
Seq#:1445; N Pos. 831,832,833,834,835,836,837,838,839,840,841,842,843,844  
Seq#:1445; N Pos. 845,846,847,848,849,850,851,852,853,854,855,856,857,858  
Seq#:1445; N Pos. 859,860,861,862,863,864,865,866,867,868,869,870,871,872  
Seq#:1445; N Pos. 873,874,875,876,877,878,879,880,881,882,883,884,885,886  
Seq#:1445; N Pos. 887,888,889,890,891,892,893,894,895,896,897,898,899,900  
Seq#:1445; N Pos. 901,902,903,904,905,906,907,908,909,910,911,912,913,914  
Seq#:1445; N Pos. 915,916,917,918,919,920,921,922,923,924,925,926,927,928  
Seq#:1445; N Pos. 929,930,931,932,933,934,935,936,937,938,939,940,941,942  
Seq#:1445; N Pos. 943,944,945,946,947,948,949,950,951,952,953,954,955,956  
Seq#:1445; N Pos. 957,958,959,960,961,962,963,964,965,966,967,968,969,970  
Seq#:1445; N Pos. 971,972,973,974,975,976,977,978,979,980,981,982,983,984  
Seq#:1445; N Pos. 985,986,987,988,989,990,991,992,993,994,995,996,997,998  
Seq#:1445; N Pos. 999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009  
Seq#:1445; N Pos. 1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020  
Seq#:1445; N Pos. 1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031  
Seq#:1445; N Pos. 1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042  
Seq#:1445; N Pos. 1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053  
Seq#:1445; N Pos. 1054,1055,1056,1057,1058,1059,1060,1061,1062,2175,2176  
Seq#:1445; N Pos. 2177,2178,2179,2180,2181,2182,2183,2184,2185,2186,2187  
Seq#:1445; N Pos. 2188,2189,2190,2191,2192,2193,2194,2195,2196,2197,2198  
Seq#:1445; N Pos. 2199,2200,2201,2202,2203,2204,2205,2206,2207,2208,2209  
Seq#:1445; N Pos. 2210,2211,2212,2213,2214,2215,2216,2217,2218,2219,2220  
Seq#:1445; N Pos. 2221,2222,2223,2224,2225,2226,2227,2228,2229,2230,2231  
Seq#:1445; N Pos. 2232,2233,2234,2235,2236,2237,2238,2239,2240,2241,2242  
Seq#:1445; N Pos. 2243,2244,2245,2246,2247,2248,2249,2250,2251,2252,2253  
Seq#:1445; N Pos. 2254,2255,2256,2257,2258,2259,2260,2261,2262,2263,2264  
Seq#:1445; N Pos. 2265,2266,2267,2268,2269,2270,2271,2272,2273,2274,2275  
Seq#:1445; N Pos. 2276,2277,2278,2279,2280,2281,2282,2283,2284,2285,2286  
Seq#:1446; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
Seq#:1446; Xaa Pos. 30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47  
Seq#:1446; Xaa Pos. 48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65  
Seq#:1446; Xaa Pos. 66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83  
Seq#:1446; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101  
Seq#:1446; Xaa Pos. 102,103,104,105,106,107,108,109,110  
Seq#:1451; N Pos. 28  
Seq#:1454; N Pos. 61  
Seq#:1464; N Pos. 21,925,926,927,928,929,930,931,932,933,934,935,936,937  
Seq#:1464; N Pos. 938,939,940,941,942,943,944,945,946  
Seq#:1465; Xaa Pos. 7  
Seq#:1468; N Pos. 391,392,393,394,395,396,397,398,399,400,401,402,403,404  
Seq#:1468; N Pos. 405,406,407,781,782,783,784,785,786,787,788,789,790,791  
Seq#:1468; N Pos. 792,793,794,795,796,797,798,799,800,801,802,803,804

## VERIFICATION SUMMARY

DATE: 09/08/2006

PATENT APPLICATION: US/10/533,416

TIME: 13:50:08

Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:7984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:1200  
L:11016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0  
L:11018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:50  
L:11020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:100  
L:12264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:50  
L:12266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:100  
L:12850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:500  
L:12852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:550  
L:12981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:60  
L:44961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:2550  
L:44963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:2600  
L:49352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3500  
L:49354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3550  
L:49356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3600  
L:49358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3650  
L:49360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3700  
L:49362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3750  
L:49364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:3800  
L:49422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5250  
L:49424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5300  
L:49426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5350  
L:49428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5400  
L:49430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5450  
L:49432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5500  
L:49434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444 after pos.:5550  
L:66259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:200  
L:66261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:250  
L:66263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:300  
L:66319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:1700  
L:66321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:1750  
L:66323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:1800  
L:66512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609 after pos.:75  
L:66515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609 after pos.:90  
L:66518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:609 after pos.:105  
L:67099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:617 after pos.:700  
L:70593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:2500  
L:74511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:682 after pos.:3000  
L:77178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:712 after pos.:2750  
L:85407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:780 after pos.:2100  
L:88325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:807 after pos.:600  
L:88327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:807 after pos.:650  
L:90218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:827 after pos.:6950  
L:91145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:834 after pos.:650  
L:91147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:834 after pos.:700  
L:91162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:835 after pos.:0  
L:91892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:842 after pos.:0

## VERIFICATION SUMMARY

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L:95828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:868 after pos.:400  
L:96414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:874 after pos.:2100  
L:98645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:901 after pos.:3600  
L:101099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1700  
L:101101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1750  
L:101103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1800  
L:101105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:931 after pos.:1850  
L:103902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:955 after pos.:1500  
L:105579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:979 after pos.:0  
L:108340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1011 after pos.:850  
L:112511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1061 after pos.:3900  
L:113392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1071 after pos.:2500  
L:113546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1073 after pos.:350  
L:113656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1074 after pos.:45  
L:117322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1114 after pos.:0  
L:120456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:0  
L:120478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:550  
L:120480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:600  
L:120482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:650  
L:120484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:700  
L:120486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1148 after pos.:750  
L:132072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1274 after pos.:550  
L:132234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:3500  
L:132236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:3550  
L:132294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:5000  
L:133454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:550  
L:133456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:600  
L:134443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1295 after pos.:3000  
L:134844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:350  
L:134846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:400  
L:134850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:500  
L:134852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:550  
L:134854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1301 after pos.:600  
L:135569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1309 after pos.:1400  
L:136607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3300  
L:136609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3350  
L:136611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3400  
L:136613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3450  
L:136615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1320 after pos.:3500  
L:136868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:4050  
L:137156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:300  
L:137158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:350  
L:137192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:1200  
L:137194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1325 after pos.:1250  
L:137407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1327 after pos.:1400  
L:137409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1327 after pos.:1450  
L:137411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1327 after pos.:1500  
L:138184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:1650  
L:138186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:1700

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L:139803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2450  
L:139805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2500  
L:139807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2550  
L:139809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2600  
L:139811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2650  
L:139813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2700  
L:139815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1357 after pos.:2750  
L:141268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1150  
L:141294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1800  
L:141296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1850  
L:141298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1900  
L:141300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1377 after pos.:1950  
L:141498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379 after pos.:2200  
L:141500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379 after pos.:2250  
L:141627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1381 after pos.:1600  
L:141649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1381 after pos.:2150  
L:141651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1381 after pos.:2200  
L:142397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:50  
L:142399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:100  
L:142415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:500  
L:142509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:2850  
L:142511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:2900  
L:142591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:4900  
L:142593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1393 after pos.:4950  
L:142682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1394 after pos.:15  
L:142685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1394 after pos.:30  
L:144306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:100  
L:144308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:150  
L:145055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2350  
L:145057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2400  
L:145059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2450  
L:145061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:2500  
L:145262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:700  
L:145264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:750  
L:145266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:800  
L:145268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:850  
L:146022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1443 after pos.:950  
L:146091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:450  
L:146093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:500  
L:146103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:750  
L:146105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:800  
L:146107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:850  
L:146109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:900  
L:146111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:950  
L:146113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:1000  
L:146115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:1050  
L:146159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:2150  
L:146161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:2200  
L:146163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:2250



## VERIFICATION SUMMARY

DATE: 09/08/2006

PATENT APPLICATION: US/10/533,416

TIME: 13:50:08

Input Set : E:\P1995R1 Sequence Listing.txt

Output Set: N:\CRF4\09082006\J533416.raw

L:146672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:0  
L:146675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:15  
L:146678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:30  
L:146681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:45  
L:146684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:60  
L:146687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:75  
L:146690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:90  
L:146693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:105  
L:146855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1451 after pos.:0  
L:147004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1454 after pos.:50  
L:147531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:0  
L:147567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:900  
L:147600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1465 after pos.:0  
L:147687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:350  
L:147689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:400  
L:147703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:750  
L:147705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1468 after pos.:800

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